

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A modem installed between a subscriber's terminal and an external modem for relaying communication, the modem comprising:

a timer for determining data transmission speed to the external modem; and

a timer controller for performing a training process for determining data transmission speed of a line connecting the modem and the external modem, the timer controller ~~determining a clock value for the timer~~ matching the data transmission speed with speed of the line by controlling output frequency of the timer based on the data transmission speed of the line determined by the training process,

wherein the timer controller ~~determines the clock value of the timer whenever the modem attempts a connection to the external modem~~ performs the training process and controls the clock frequency whenever the modem attempts a connection to the external modem.
2. (canceled).
3. (original) The modem of claim 1, wherein the line is a telephone line and the modem is Asymmetrical Digital Subscriber Line ("ADSL").
4. (original) The modem of claim 1, wherein the external modem is installed at a main station that performs Asymmetrical Digital Subscriber Line ("ADSL") service to a plurality of subscribers' terminals.

5. (currently amended): The method for adjusting data transmission speed of a modem in a subscriber's terminal and an external modem for relaying communication therebetween, the method comprising the steps of:

performing a training process with the external modem for determining data transmission speed for transmitting data to the external modem when the modem attempts a connection to the external modem;

matching the data transmission speed with speed of the line by controlling output frequency of a timer ~~setting a clock setting value of a timer for synchronizing the data transmission speed to the external modem corresponding to the data transmission speed determined by the training process; and~~

sending and receiving data with the external modem during the connection to the external modem according to the clock frequency~~setting value~~ of the timer,

wherein the training process is performed whenever the modem attempts a connection to the external modem, and the clock frequency of the timer is controlled whenever the training process is performed ~~wherein the clock setting value of the timer is adjusted whenever connection is established between the modem and the external modem.~~

6. (canceled).

7. (original): The method for adjusting transmission speed of a modem of claim 5, wherein the modem and the external modem is connected through a telephone line and the modem is an Asymmetrical Digital Subscriber Line ("ADSL") modem.

8. (original): The method for adjusting transmission speed of a modem of claim 5, wherein the external modem is installed at a central office performing Asymmetrical Digital Subscriber Line (“ADSL”) service to a plurality of subscribers’ terminals.